

The Knowledge Bank at The Ohio State University
Ohio State Engineer

Title: Back Matter

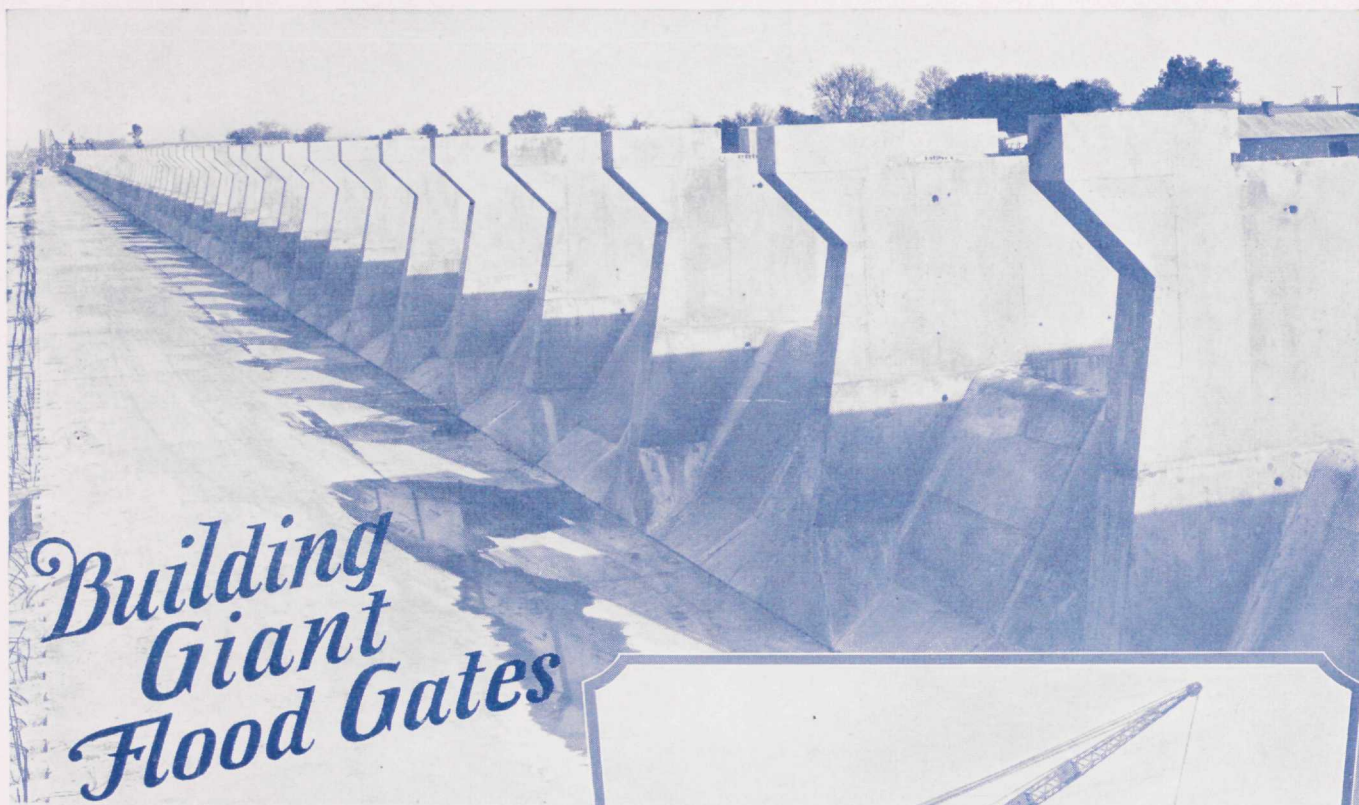
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Building Giant Flood Gates

TWENTY-EIGHT miles upstream from New Orleans a great flood gate known as the Bonnet Carre spillway is being completed. In times of high water this concrete dam on the east bank of the Mississippi will tap the flood before it reaches the city, diverting the dangerous excess into Lake Pontchartrain.

The Bonnet Carre spillway consists of a concrete dam and a pier-and-weir section about 7700 feet long. The weir sections, which are twenty feet wide between the piers, have timber needles on the crests at two levels—elevations 16' and 18'. A traveling crane, on a bridge spanning the piers, removes the timber needles for discharge.

N. E. C. equipment played an important part in the construction set-up. Two Koehring Cranes handled aggregate at the material bins and a third Koehring placed the concrete with an Insley bucket. Two large Smith mixers mixed the 127,000 cu. yds. of concrete used on the project.

Wherever you find construction work in progress, you find N. E. C. equipment!



"Concrete—Its Manufacture and Use," a complete treatise and methods on present and handling portland cement concrete, will be gladly sent on request to engineering students, faculty members and others interested.

KOEHRING

Pavers, Mixers; Power Shovels, Pull Shovels, Cranes, Draglines; Dumpsters.

INSLEY

Excavators; Concrete Placing Equipment; Cars, Buckets, Derricks.

T. L. SMITH

Tilting and Non-tilting Mixers, Pavers, Weigh-Mix.

PARSONS

Trenchers, Backfillers.

C. H. & E.

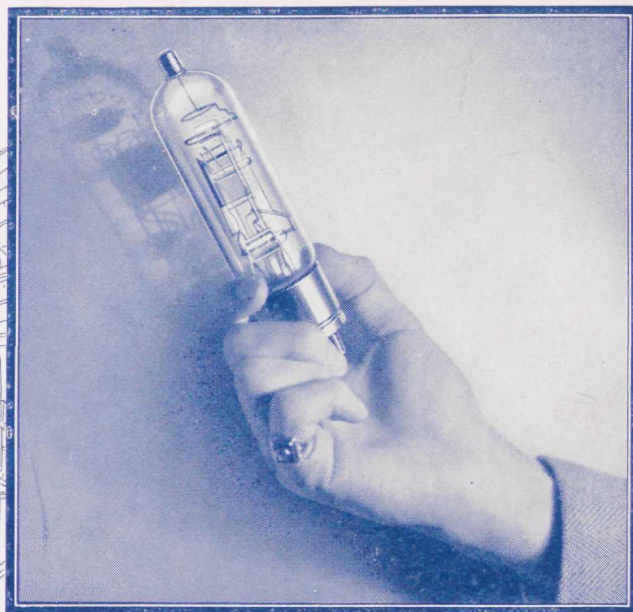
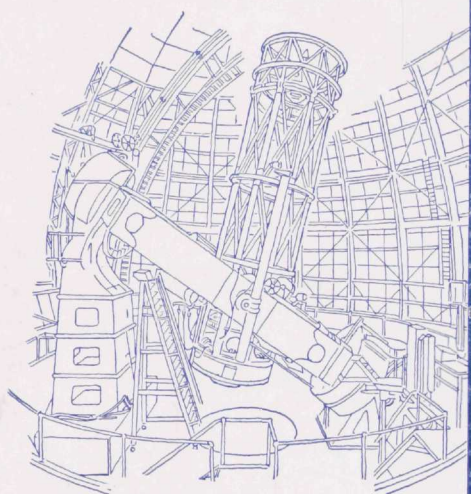
Portable Saw Rigs, Pumps, Hoists, Material Elevators, Ditchers.

KWIK-MIX

Mixers — Concrete, Plaster and Mortar.

National Equipment Corporation

30th St. & Concordia Ave.
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The new G-E low-grid-current Pliotron tube capable of measuring a current as small as 10^{-17} ampere

This Little Tube Measures Stars Centuries of Light Years Distant

BY MEANS of a new vacuum tube called a low-grid-current Pliotron tube, astronomers can gather the facts of stellar news with greater speed and accuracy. In conjunction with a photoelectric tube, it will help render information on the amount of light radiation and position of stars centuries of light years away. It is further applicable to such laboratory uses as demand the most delicate measurement of electric current.

So sensitive is this tube, that it can measure 0.000,000,000,000,000,01 of an ampere, or, one-hundredth of a millionth of a billionth of an ampere. This amount of current, compared with that of a 50-watt incandescent lamp, is as two drops of water compared with the entire volume of water spilled over Niagara Falls in a year.

General Electric leadership in the development of vacuum tubes has largely been maintained by college-trained men, just as college-trained men are largely responsible for the impressive progress made by General Electric in other fields of research and engineering.

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